


SANYO Semiconductors

DATA SHEET

RE0208M — Fast Recovery Diode for Flash Circuit 800V, 200mA Rectifier

Applications

- Voltage rectification for flash circuit etc.

Features

- High voltage ($V_{RRM}=800V$).
- Reverse recovery time is fast.
- Ultrasmall-size package permitting applied sets to be small and slim.
- Halogen free compliance.

Specifications

Absolute Maximum Ratings at $T_a=25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		800	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		800	V
Average Output Current	I_O	DC.When mounted on ceramic substrate	0.2	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	1	A
Junction Temperature	T_j		-55 to +150	$^{\circ}C$
Storage Temperature	T_{stg}		-55 to +150	$^{\circ}C$

Electrical Characteristics at $T_a=25^{\circ}C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=1mA$	800			V
Forward Voltage	V_{F1}	$I_F=10mA$		1.3	1.6	V
	V_{F2}	$I_F=100mA$		3.2	4.0	V
Reverse Current	I_{R1}	$V_R=400V$			3	μA
	I_{R2}	$V_R=800V$			50	μA

Marking : 2B

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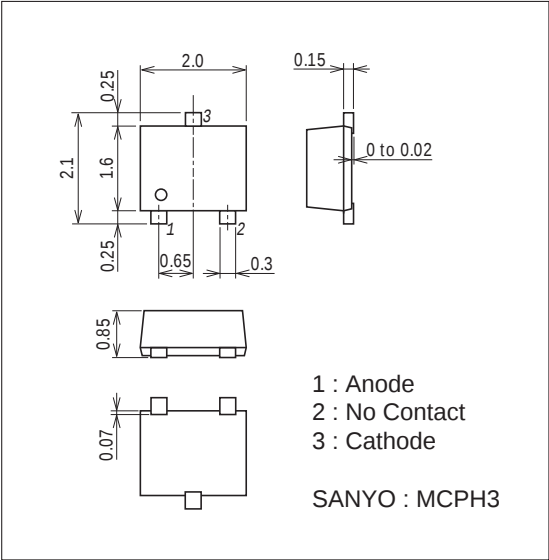
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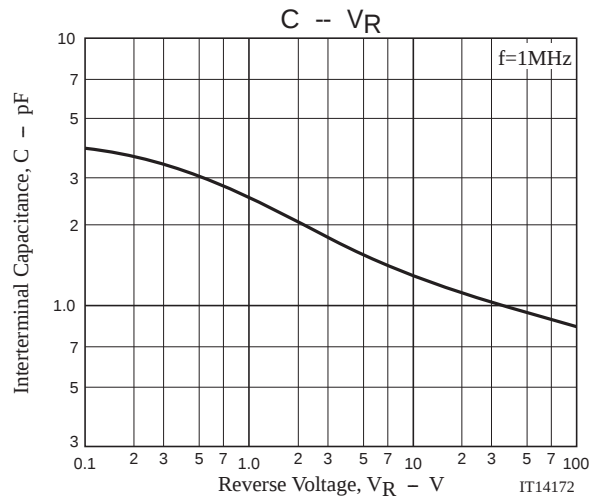
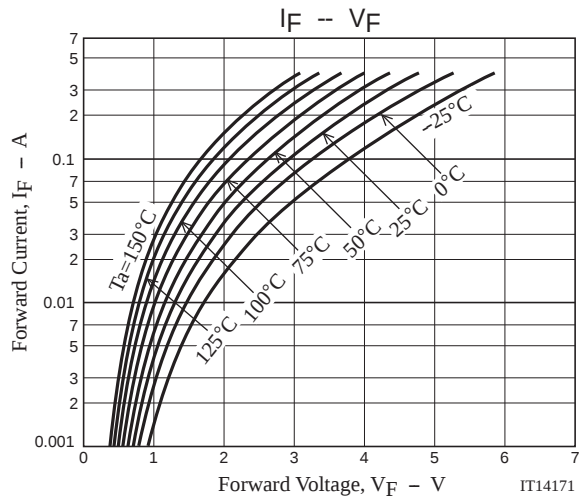
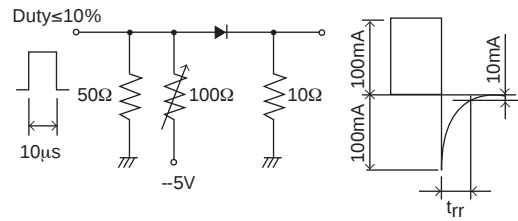
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$, See specified Test Circuit.		33	55	ns
Thermal Resistance	$R_{th(j-c)}$	When mounted on ceramic substrate (40mm×50mm×0.8mm)		120		°C / W

Package Dimensions

unit : mm (typ)
7019A-001



t_{rr} Test Circuit



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